

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

U.S. GOVERNMENT PRINTING OFFICE  
JULY 1 2004

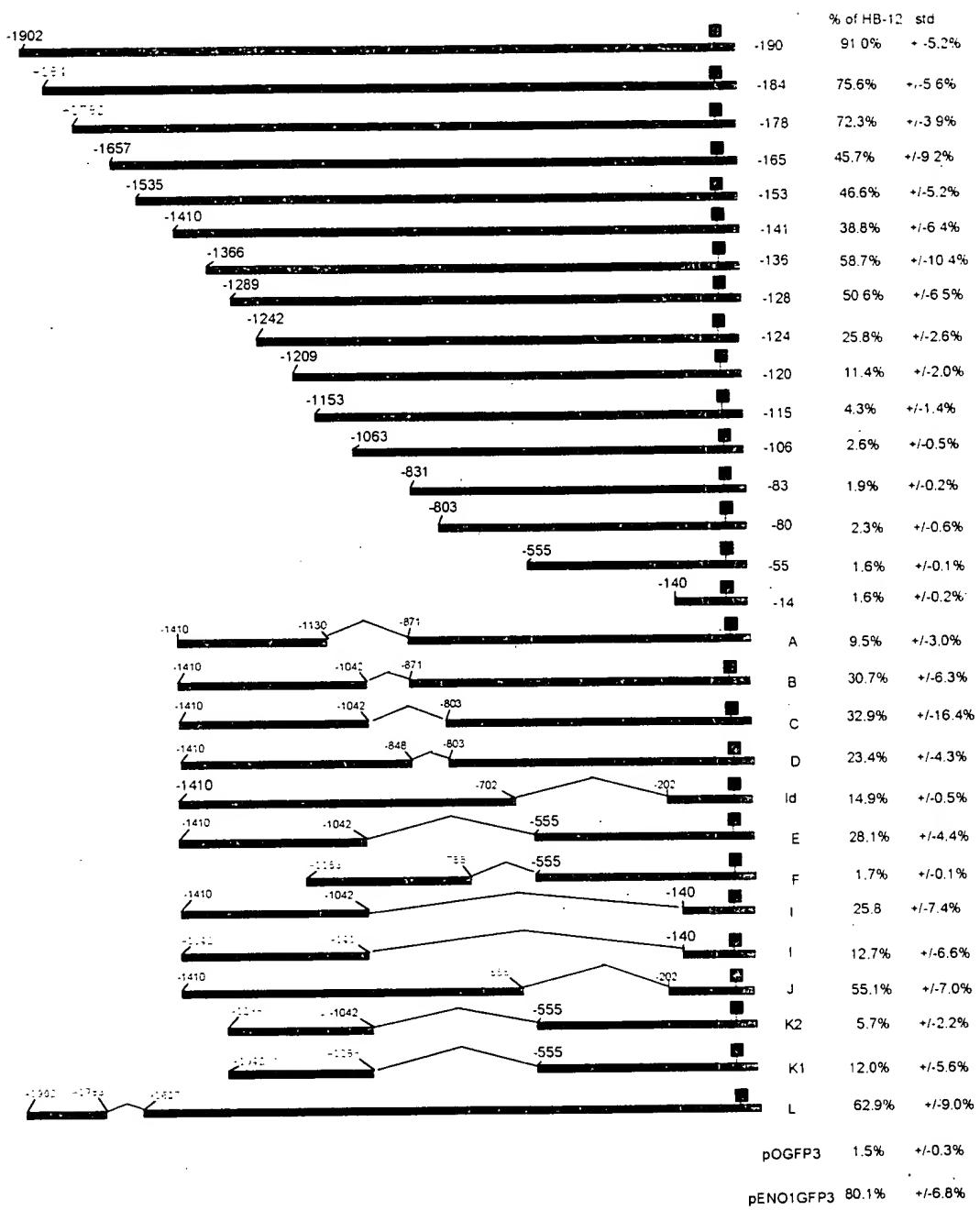


Figure 1A



-1902

GGTAATTATTGGAATGAACGTGTTAACACATTGAGGAATTGGTTGGAGATGAGAATTG  
GCACTAAATAGGTAATTGTTATTTAGCTGTTCATATAATTGGCAAGTAGTGTGTA  
CTAATGATTGTGACTATTGAAAATGAATTATTTTCAATTGCCTTACAATA  
GTATAATTTCGCGTGTATATGGTTATGAACACTGTAAGCTGAATGCCATAAAAAACTC  
TTAGCTGGGTCTAGTAATGTTGTGCATATGGTGGCAGAAATGTCAGAAAGAGGA  
TAGTATGTCGTGGGCCGACGCGAATCGTCAAAAAAATCCGCCTCACAAATATTGGATCAA  
GATTTATGTAACAAACTCCCACAACCAATCGTCTGGCATTGAAATATACCATTATAG  
TACCTATCAGTGCCATTCTGTTAATATTGGAATATTCTTGTCTTGACTTATTGC  
TAGCATATAAAGAGATCTTCTTTCATTCCCTAAACCGATCAAGAAAGAAAGTGG  
AAATAAAGCTATGATAAATGTTGATTTGTGAATTCAACTAAGCACGTTGACAG  
TTAAAAAGTACGTTGTTGTCTCGTCTCGTCAATTCTGTTGACGAGGATTAATAA  
CAAGAAATACAGGAAACCCCTCCAAAAAAATTTGGACCTTACACGCACATAAATTGC  
GGATAAAACTGCCATAATAAAACTCTTGAAACATACGATATGTTATTCTTCTATAAC  
TGGAAATTGCTTTTTAACATTATGAAACAATTGAAAAAAAGGAAATGAAAAG  
GTAAGAGTTGCCAACCATGAAAATAATAGGCTAAGGTTTCTGATGCGTTAACTA  
AAAAGGAAATAACAAAAGTTATTAGCGATAACCTGCGTAAGGTGTCAACAAATATATT  
TGTACGTAGCTCTATAGAAAATATATAATCTAAATCCTTAAGGAATTCTCTATATAT  
AATAGGAAATCCCTCTCACAGTGAACATTCCATCTGAATTATCAGTCCACTAATT  
CCATCAATAAAATAGATTAGTGTATTGTTCTTCAGTACAATTACTACCATTATGCAAT  
GCTAGCTTATTGTTCATATTAGCCATGTTGCACACCCCTAATCGAACATTAACGTATC  
CATATTCTGCTTCTTGTCTTCTAACAAAAATGTTCCAGAATTTTAAAA  
AATATTGAAAAACACATAACACTTGGATGAGTATGATAATATCAACCATTGACTTGT  
AAAGTAAAGAATCAAATTCTAACTCGACTAATGCACTTACATCAACTGGATGTT  
ATTGCACTACTACTATAAGCTAAACAAATTATCTTCAAAAATGTTATAATTAAACAA  
GTCATCTATAATTCTTGGATCCAAAACAAGGAATCGAAATTCTGACGATAATGTC  
GACTCACAAATTGATGAAAAGGGAGAGTTGGTAGGCTCATACGCTTAAATGTT  
CCTCTAAAGTAATCTAAACAAACACAACCTTCTAAACCTATAATAACCCCTAATG  
GCTCACAAACGGGATAAGTTAGTTAGCCCCAGCTGTTTTTGCCTTATTGAC  
TACATTGTTCACTTTGTTGCGACTTTAATACGTTTGCAACTCTCTTGTAT  
CACCTGTATCCGCCTTTAACATAGCAACTCTGTAAGTCCCTTCTTCCCCTA  
TTTATCATTCTGAAATATGTAATCAGAATAGTTCAAAAATATAAACGGTCA  
AAATAACCGGCTATTCAATTCCATTCAACTGTTCTCAACAAATATCAAACACAAAC  
AGGAATCTCCTATAGTCACTCGCTTAGTTCGTCAAT

Figure 5

JULY 07 2004  
U.S. PATENT & TRADEMARK OFFICE

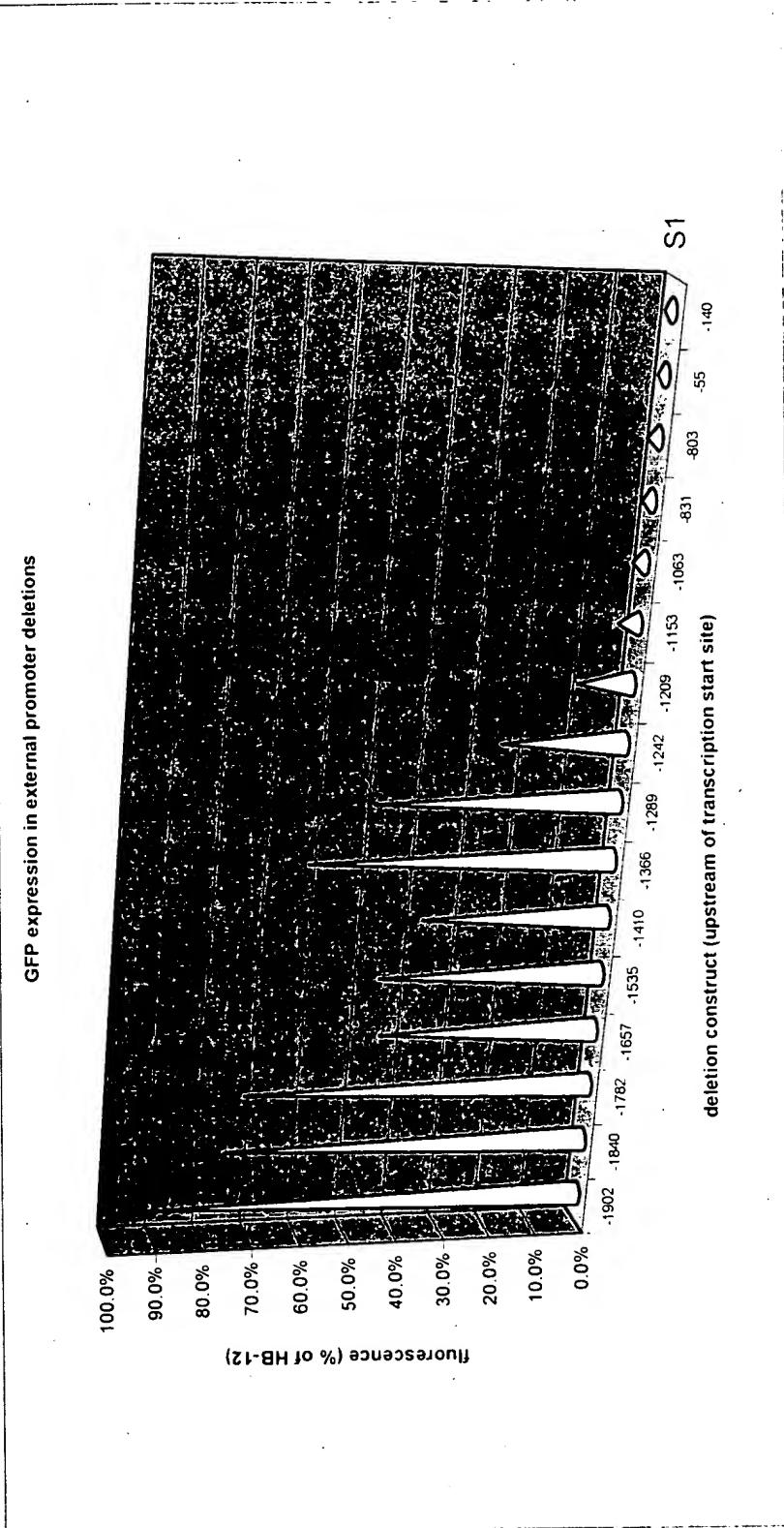


Figure 1B



SC5314 (WT)

CAH7-1A (*hwp1/hwp1*)

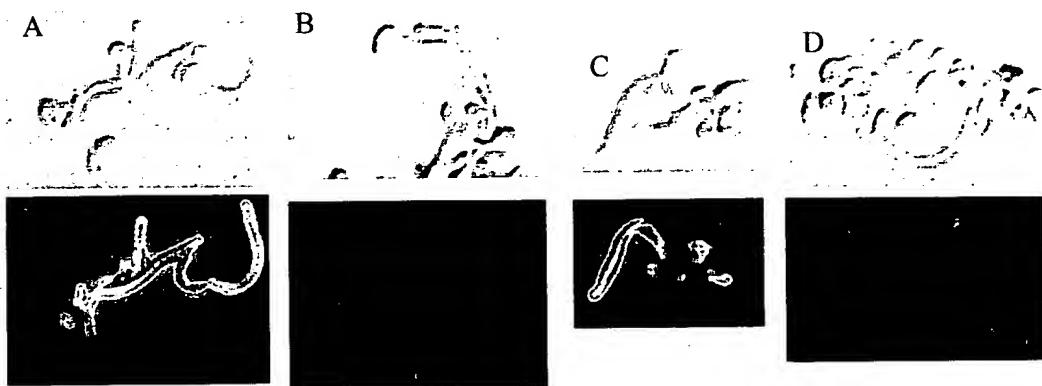


Figure 2



Figure 3A

| Probe          | 1902-1657   | 1782-1535 | 1782-1657 |
|----------------|---|-----------|-----------|
| Sp. Comp.      | x 50 x x 50 x x x 50 x x 50 x x x 50 x x 50 x         |           |           |
| Non Sp. Comp.  | X x 100 x x 100 x x x 100 x x 100 x x x 100 x x 100   |           |           |
| Protein sample | SC5314-y SC5314-g SC5314-y SC5314-g SC5314-y SC5314-g |           |           |

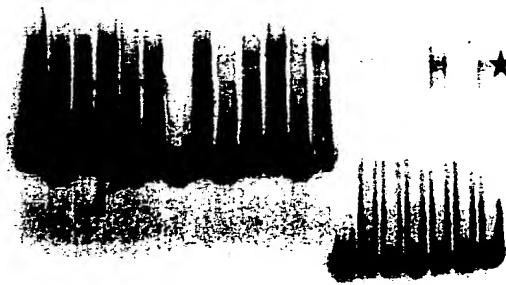


Figure 3B

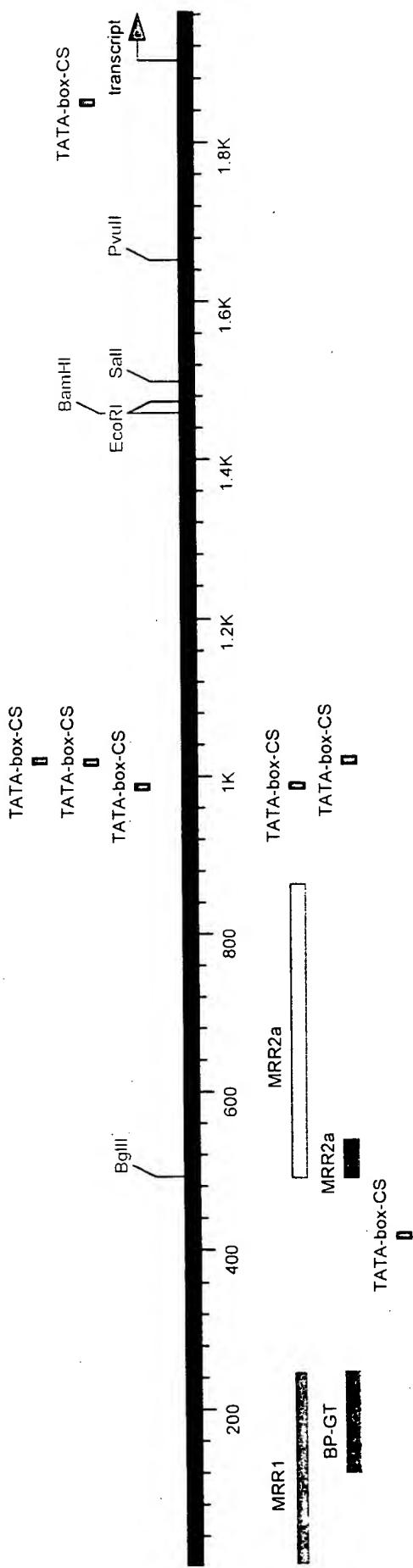


Figure 4